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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/014,153

11/06/2001

Timo Viero

975.377USW1

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EXAMINER

NGUYEN, PHUONGCHAU BA

ART UNIT

PAPER NUMBER

2616

MAIL DATE

DELIVERY MODE

03/05/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.

10/014,153

Applicant(s)

VIERO, TIMO

Examiner

PHUONGCHAU BA NGUYEN

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 03 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 34-71 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 45-47 is/are allowed.
- 6) ☒ Claim(s) 34,35,38-42,48-50,52,54,56-63 and 67-71 is/are rejected.
- 7) ☒ Claim(s) 36,37,43,44,51,53,55 and 64-66 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

*Claim Rejections – 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 34–35, 38–42, 48–50, 52, 54, 56–63, 67–71 are rejected under 35 U.S.C. 102(e) as being anticipated by Watanabe (6285662).

Regarding claims 34, 58:

Watanabe discloses a method for performing random access in a mobile communication network (fig.1) having a base transceiver station (Access point-14) and a plurality of mobile stations (MS-12), comprising the steps of:

a) transmitting from said base transceiver station AP 14 to said plurality of mobile stations MS-120 a parameter (a number of timeslot allocated to form random access channel, see col.3, line 66-col.4, line 9) defining allowed access slots of a physically existing random access channel (RACH);

b) receiving said parameter (the number of allocated timeslots) at a mobile station (MS-12, fig.1) and determining (selecting), at said mobile station, said allowed access (timeslot defining random access channels of MAC frame) of the physically existing random access channel based on said parameter (allocated timeslots) {col.3, line 66-col.4, line 9}; and

c) using (the allocated timeslots), at said mobile station, the physically existing random access channel (of the random access channels) for initiating (transmitted packet data upon the random access channel of permitted random

access, col.4, lines 14–40) a random access operation (to any mobile station having the permitted random access slots.

Regarding claims 35, 59: Watanabe further discloses wherein said parameter is transmitted via a broadcast channel {col.5, lines 39–45}.

Regarding claim 38: Watanabe further discloses wherein said parameter defines a subset of available access slots of said mobile communication network (the allocated timeslot on the random access channel, col.5, lines 18–35).

Regarding claim 39: Watanabe further discloses wherein said subset is determined by another parameter transmitted from said base transceiver station to said mobile station (col.4, lines 16–19).

Art Unit: 2616

Regarding claim 40: Watanabe further discloses wherein said other parameter is a timing parameter defining *a transmission timing of an uplink access slot* (*allocated timeslot* on the random access channel, col.4, lines 16–19).

Regarding claim 41: Watanabe further discloses wherein said other parameter is transmitted via a broadcast channel (col.4, lines 10–16).

Regarding claim 42: Watanabe further discloses wherein the bit number of said parameter is changed in dependence on said other parameter (col.16–40, parameter changing because of collision).

Regarding claims 48, 61–62: Watanabe further discloses wherein an index of an allowed uplink access slot is determined on the basis of the value of said parameter irrespective of a frame number of a frame used for transmitting an uplink access slot (the allocated timeslot is the index, col.4, lines 16–19).

Art Unit: 2616

Regarding claim 49: Watanabe further discloses wherein an allowed downlink slot is determined by adding a predetermined value (col.4, lines 31–40, increasing the content window in size–allocated timeslot, see also, col.4, lines 6–9).

Regarding claims 50, 60: Watanabe further discloses wherein said predetermined value is selected in accordance with a timing parameter defining a transmission timing of said uplink slot (the selected time slot are dynamically allocated on a frame by frame basis, see col.3, line 66–col.4, line 9).

Regarding claim 52:

Watanabe discloses a system for performing random access in a mobile communication network, comprising:

a) a base transceiver station AP14–fig.1 arranged for transmitting a parameter (allocated timeslots) of a physically existing random access channel (RACH) (col.9, lines 12–26) and

Art Unit: 2616

b) a plurality of mobile stations (MS12) arranged for receiving said parameter, for determining said allowed access slot of the physically existing random access channel based on said parameter (allocated timeslots, col.9, lines 12–26), and for using at least one of said determined allowed access slots of the physically existing random access channel for initiating a random access operation to said base transceiver station AP14–fig.1 (col.6, lines 12–26; also see fig.3).

Regarding claim 54:

Watanabe discloses a network element (AP14–fig.1) for a mobile communication network comprising a plurality of mobile stations (MS12–fig.1), comprising:

a) setting means (col.8, line 61–col.9, line 2) for setting a parameter defining allowed access slots a physically existing random access channel (RACH), via which allowed access slots of the physically existing random access



channel a random access operation to the network element to be initiated  
(col.9, lines 2–10); and

b) transmitting means (broadcasting, col.8, lines 61–66) for transmitting  
said parameter to said plurality of mobile stations (MS12–fig.1).

Regarding claim 56: Watanabe further discloses wherein said transmitting  
means is arranged to transmit said parameter via a broadcast channel  
(broadcasting, col.8, lines 61–66).

Regarding claim 57: Watanabe further discloses wherein said setting means  
(col.8, line 61–col.9, line 2) is arranged to set said parameter in dependence on  
a timing parameter value (the number of timeslot that would be available for  
accessed) defining a transmission timing of an uplink access slot in said  
random access operation.

Regarding claim 63:

Watanabe further discloses wherein a selection means is provided for randomly selecting from allowed access slots of the physically existing random access channel determined by said determining means an uplink access slot to be used for transmitting a preamble of said random access message (col.9, lines 12-26, wherein the frame transmitting on uplink access slot inherently having preamble, emphasis added).

Regarding claim 67:

Watanabe discloses a method for performing random access in a mobile communication network, comprising the steps of:

a) (MS-12, fig.1) receiving a parameter of at least one physically existing random access channel for a random access operation (col.9, lines 12-26);

b) (MS-12) determining said allowed access slots (of the physically existing random access channel) based on said parameter (col.9, lines 12-26);

and

c) (MS-30) initiating transmission of a random access message using at least one of said determined allowed access of the physically existing random access channel (col.9, lines 12-26).

**Regarding claim 68:**

Watanabe discloses a method for performing random access in a mobile communication network, comprising the steps of:

a) receiving information about a set of available uplink access of a random access channel (col.6, lines 12-26; wherein the parameters could have been a set of available uplink access of Random Access Channel (RACH)—emphasis added);

b) deriving available uplink access slots, in a next full access set, for the set of available uplink access (col.6, lines 12-26); and

c) randomly selecting one access among the available uplink for initiating a random access procedure (col.6, lines 12-26).

**Regarding claim 69:**

Watanabe discloses a method for performing random access in a mobile communication network, comprising the steps of:

- a) (MS-12, fig.1) receiving a set of available RACH sub-channels (RACHs), (fig.5);
- b) deriving available uplink access slots, in a next full access set, for the set of available RACH sub-channel (figs.1 & 3, col.9, lines 12-26); and
- c) randomly selecting one access among the available uplink access RACH sub-channels for initiating a random access procedure (col.9, lines 12-26).

Regarding claim 70:

Watanabe discloses a method comprising the steps of:

- a) receiving (at MS12-fig.1) an access parameter message sent on a broadcast channel in a mobile communication network, the access parameter message defining allowed transmission slots in which random access channel transmission are limited to occur, wherein the allowed transmission slots are dictated by slot offset duration parameter (collision condition would cause the number of random access channels is relatively small (col.9, lines 12-32);

b) calculating (by dynamically allocating) an allowed transmission based on (col.9, lines 12–26); and

c) initiating transmission of a random access message using the allowed transmission (col.9, lines 12–26).

Regarding claim 71,

Watanabe discloses an apparatus, comprising:

a) receiving means (MS12–fig.1) for receiving from a network element (AP14–fig.1) a parameter (allocated timeslots) of a physically existing random access channel for said random access operation (col.9, lines 12–26);

b) determining means (MS) for determining said allowed access of the physically existing random access channel based on said parameter (allocated timeslots) received from said network element (AP) (col.9, lines 12–26); and

c) transmitting means (MS) for initiating transmission of a random access message to said network element (AP) using at least one of said determined allowed access of the physically existing random access channel (col.9, lines 12–26).

*Allowable Subject Matter*

3. Claims 45–47 are allowed.
4. Claims 36–37, 43–44, 51, 53, 55, 64–66 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

*Response to Arguments*

5. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUONGCHAU BA NGUYEN whose telephone number is (571)272–3148. The examiner can normally be reached on Monday–Thursday from 8:30 a.m. to 7:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571–272–3155. The fax

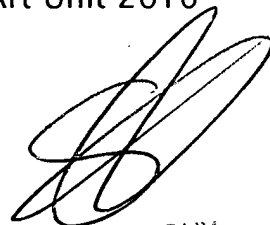
Art Unit: 2616

phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



PHUONGCHAU BA NGUYEN  
Examiner  
Art Unit 2616



STEVEN NGUYEN  
PRIMARY EXAMINER